



This list of Open House exhibits is as complete as scheduling permitted. However, some additional displays may be found in various buildings. For the location of buildings listed here, consult the campus map in the Engineering Open House program.

AERONAUTICAL ENGINEERING

- In Aero Lab B
 Windmill Generator
 1-D Nozzle
 Wing Stress Measurement
 Solar Energy
 History of Aviation and Space Travel
 Ripple Tank Demonstration
 Ramjet
 Shadowgraph
 Aerodynamic Phenomena
 In the Woodshop
 MHD Exhibit
 PLATO Display
 Analog Simulations
 Paper Airplanes

AGRICULTURAL ENGINEERING

- In the Agricultural Engineering Building and Lab
 Model Oxidation Ditch
 Nitrate Reduction
 Silica Gel Grain Dryer
 Hail Damage to Siding Material
 Soil Bin Demonstration

- Anaerobic Digestion of Swine Manure
 Drying Front-through Corn Model Channel and Weir
 Soybean Damage and Detection
 Fiber Reinforced Concrete
 A Micro Unit -- Soybean Seed Storage
 Pneumatic Conveying
 How a Cow Eats
 Energy Absorbtion of a Soybean Soybean - Banana Candy Bar
 Microwave Oven and Popcorn Ventilating System using PVC Pipe
 Energy Efficient Model Farm Water Flow in Permeable Media
 Plastic Drain Tile Finder Temperature Study of Plastic Drain Tile
 WANG Computer -- Drainage Ditch Cross-sections
 Noise of Axial Flow Fans Dual Tracer Technique for Measuring Spray Drift
 Improved Soybean Header Vibratory Tillage Tests in Soil Bin
 Development of Concrete Wall Panel System

BIOENGINEERING

- In 129 Talbot Lab
 Biofluids -- Pressure Transients
 In the Ceramics Building
 Hip Prostheses Display
 Microradiographs of Simulated Bone
 In Engineering Hall
 Radiobiology
 General Bioengineering Display
 In the Mechanical Engineering Building
 Microstructure of Dental Enamel
 Nerve Cross-sections and Waveforms
 ECG of a Live Frog
 Engineering Aspects of Hospital Equipment
 In the Materials Research Lab
 Piezoelectric Properties of Fissures

CERAMIC ENGINEERING

- In the Ceramics Building
 Porcelain Enameling, Room 101
 Strength Demonstration, Room 103
 Differential Thermal Analysis, Room 111
 Refractories, Room 112
 Phase Transformation, Room 113

- Electrical Ceramics, Room 113
 Bioceramics, Room 113
 Glass, Room 113
 Nuclear Ceramics, Room 115
 In the Kiln House
 Glass Pouring
 Pyrometry

CHEMICAL ENGINEERING

- In Roger Adams Lab
 Distillation Column, Room 8
 Chem-Pop, Room 8
 Rotary Filter, Room 8
 Fluidized Bed, Room 8
 Activated Sludge, Room 8
 Bipolar Porous Electrodes, Room 10
 Electrochemical Removal of Heavy Ions, Room 10
 Alkylation Unit
 Various Films, Room 116
 Liquid Level Controller, Room 201
 PLATO Terminal
 Chemistry Magic Show, Room 116
 (12 NOON FRIDAY ONLY)

In Room 294

- Hollow Fiber Membrane
 Electrostatic Precipitator
 Chem-cow
 Chemical Kinetics
 Sulphur Dioxide Scrubber
 Aerosols Generation and Deposition
 Free Energy in Reactor Design
 Crystal Growth Cooling Rates
 Partial Molar Viscosity
 Multi-component Equilibria
 Absorbtion in a Packed Tower

CIVIL ENGINEERING

- In the Civil Engineering Building
 Environmental Exhibits
 Transportation
 MTS Machine
 Tunnel Project
 3-D Aerial Photography
 Quicksand
 Soils Exhibit
 Construction Problems on a Computer
 Sanitary Engineering Exhibit

COMPUTER SCIENCE

- In the Digital Computer Lab
 NIM Game on PLØRTS, Lobby
 Blackjack on PLØRTS, Lobby
 IQ Test on PLØRTS, Lobby
 Poker on PLØRTS, Lobby
 Computer that Answers General English Questions, Basement
 Character Printer

Number Guessing Game, Room 23
Hardware Version of Craps, Room 23
Reaction Timer, Room 23
PDP-8 Games, Room 31
Character Display, Room 115
Talking, Drawing PDP-11 Computer, Room 123
Live IBM-360 Tour, Room 194
In the Advanced Computation Building

Terminal on ARPANET
Graphics Center

ELECTRICAL ENGINEERING

On Burrill Avenue
Hybrid Electric Urban Vehicle
Magnetic Cannon
In the Electrical Engineering Building
Control System Research Lab, Room 50L
Hybrid Circuits Lab, Room 132
Microelectronics Lab, Room 133
Minicomputer Display, Room 134
Analog-to-Digital Signal Conversions, Room 134
Infrared Laser, Room 136
Good Vibes Stereo, Room 141
Society of Women Engineers -- "It's a Women-made World Too," Room 160
Electronic Racquetball, Room 161
POL-ART, Room 162
Kirlian Photography, Room 163
Biomedical Instrumentation, Room 163
Computer Chess Game, Room 165
Eye Monitor -- "Follow the Bouncing Ball," Room 168
Mouse in a Maze, Room 169
Electrostatics, Room 170
Microwave Lab, Room 238
Electronics Projects Lab, Room 246
Computer Guided Experiments Lab, Room 248
Live Weather Satellite Pictures, Room 251
Time Multiplex System, Room 251
Synton Radio Amateur Club Room 251
Antigravity Servomechanism, Room 254
Magnetic Skillet and Coffee Can Motor, Room 254
Flame Speaker, Room 257
Jacob's Ladder and Tesla Coil, Room 269
Quantum Electronics Lab, Room 267
Ozzie, the Smiling Face, First Floor Hall

GENERAL ENGINEERING

In the Transportation Building
Design Projects, Room 113
Plotter, Room 400A
Engineering History and Law, Room 202
Movies, Room 216
Analog Simulations, Room 406
Air Force Exhibit, Room 201

INDUSTRIAL ENGINEERING

In the Mechanical Engineering Building
Applications of Manufacturing Techniques, Room 217
Applied Statics, Room 217
Safety Engineering, Room 217
Ashtray Stamping, Room 217
Inertia Welding, Room 217
Computer Demonstrations, Room 221E

MECHANICAL ENGINEERING

In the Mechanical Engineering Building
IC Engine, Room 101
Fatigue Testing, Room 101
Skid Pad Exhibit, Room 110
Great Race, Room 135
Heat Pump, Room 143
Building Stability, Room 143
ASME Exhibit, Room 136
Dog and Flea, Room 143W
Creative Machine Design, Room 143E
Bioengineering, Room 153W

In the Mechanical Engineering Lab

Coal Dust Combustion
Vortex Tube
Nozzle Flow Visualization
Hydraulic Analogy

METALLURGICAL ENGINEERING

In the Metallurgy and Mining Building
Metallography, Front Hall
Strength of Materials, Front Hall
Passion Metal, Front Hall
Rolling Mill, Room 112
Metal Casting, Room 112

NUCLEAR ENGINEERING

In the Reactor Building
Nuclear Reactor Tour
In the Physics Building
Plasma Confinement, Room 151
Nuclear Engineering Films, Room 151

PHYSICS

On the Open House Bus Route
Superconducting Linear Accelerator (LINAC)
In the Physics Building
Spark Chamber
Spectrum and Absorption of Gamma and Beta Rays
Mössbauer Effect
Plasma Confinement with Magnetic Fields
Controlled Thermonuclear Fission Films
Holography Display and Laser Modulation
Schlieren Photography
Michelson Interferometer
Superconductivity
Magnetic Levitation
Introductory Physics Lectures
PLATO -- An Experiment in Teaching
Physics Lab Experiments
Metal Vapor Laser (Cd-He)
Computer Games -- Tic Tac Toe and Blackjack
Wideband Laser Modulation with Kerr Cell
Point Contact Transistor Display

THEORETICAL AND APPLIED MECHANICS

In Talbot Lab
Water Bell Demonstration, Room 126
Hydraulic Jump, Room 126
Supersonic Flow Analogy, Room 126
Air Tunnel, Room 126
White Light Holography, Room 225A
Materials Testing, Room 225
Fracture Behavior of Engineering Materials, Room 321
Dynamics Laboratory, Room 207
3,000,000 Pound Testing Machine